

2014



## Danville Utilities *Home\$ave* Program Manual

Version 022415

This Program Manual is intended to serve as a reference manual for the residential customers of Danville Utilities that are interested in learning more about or participating in the *Home\$ave* program.

For more information, please call 1-888-599-0450 or visit  
[www.danvillehomesave.com](http://www.danvillehomesave.com)

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In order to participate in Danville Utilities' **Home\$ave** Program, the applicant is required to complete the Rebate Application and submit it with adequate supporting documentation. Rebates are available to all residential customers that receive electric service from Danville Utilities on the "RS" Schedule 10 Residential Electric Service rate schedule. All equipment and/or services must be new and must be purchased on or after July 15<sup>th</sup>, 2014 to be eligible for rebates. The Rebate Application must be signed by customer(s) that have an active residential electric service account with Danville Utilities. Rebate processing may take up to eight weeks from receipt of complete Rebate Application. Rebates will not be paid for ineligible or incomplete Rebate Applications. Refer to the Terms and Conditions section at the end of the Rebate Application in Appendix A for more detailed information. The steps for participation are as follows:

1. Purchase and install a qualified product. To find out what products and services qualify, visit [www.danvillehomesave.com](http://www.danvillehomesave.com) or obtain a program application from your equipment dealer.
2. Complete all the information requested on the Rebate Application.
3. Review and sign the Acceptance of Terms.
4. Include sales receipt or invoice that includes all of the following information:
  - Retailer/Contractor name, address and phone number
  - Itemized listing of quantity, size, description, manufacturer, model number and other identifying information as appropriate
  - Purchase date and cost
  - Product installation date
  - Efficiency requirements documentation
5. Completed signed Rebate Application with all supporting documents may be  
Mailed to: Danville **Home\$ave** Program, 749 Piney Forest Road, #233, Danville VA 24540  
Emailed to: [homesave@danvilleva.gov](mailto:homesave@danvilleva.gov) or Faxed to: 801-266-4786

The **Home\$ave** program is a prescriptive rebate program<sup>1</sup> that will offer rebates for qualifying measures upon successful purchase and installation. Qualifying measures include those that target electric energy savings for new and existing homes. Rebates will be paid directly to participating customers.

The program requires customers to submit a Rebate Application along with the required documentation after the purchase of qualifying measures or after performing a tune-up service. All completed Rebate Applications will be subject to review, phone inspection and/or on-site inspection. Upon successful review, customers will receive cash rebates in the form of checks mailed directly to the address associated with the customer account number.

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<sup>1</sup> A program that has pre-defined rebates for the energy efficiency measures in its portfolio.

### 3.1 Qualifying Customers

All customers in Danville’s service territory that receive electricity from Danville Utilities on the residential “RS” Schedule 10 electric service rate schedule<sup>2</sup> are eligible to participate in the **Home\$ave** Program.

### 3.2 Measure Eligibility & Rebates

Table 3-1 lists the energy-efficiency measures, eligibility requirements and rebate levels offered under the **Home\$ave** Program’s portfolio.

### 3.3 Rebate Limitations

- Air Conditioning and Heat Pump Tune-Ups must be performed by a qualified contractor in order to qualify for rebates.
- Dwelling unit must be located in Danville’s service territory and receive electricity from Danville Utilities on the residential “RS” Schedule 10 electric service rate schedule (i.e. meter set or account activated) at the time of the rebate payment.
- Each rebate will be mailed to the mailing address and in the name of the Danville Utilities customer account unless a third party rebate authorization is submitted with the Rebate Application.
- Rebate Applications must be received within 90 days of purchase of qualifying equipment or from the date of tune-up service, to qualify for rebates.
- Serial number, itemized receipt, model number, a fully completed application and a fully completed tune-up form (for tune-up rebates) are required to qualify for rebates.

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<sup>2</sup> This information may be obtained from the customer’s utility bill

**Table 3-1: Qualifying Measures, Efficiency Requirements and Rebate Levels**

Measure	Equipment Size Category	Minimum Required Efficiency	Unit	Rebates (\$/Unit)
Residential Clothes Washer	Front- or Top-Loading Washers with Capacity > 1.6 ft <sup>3</sup>	ENERGY STAR certified, Modified Energy Factor (MEF)> 2.0 Water Factor (WF)< 6.0	Each	\$50
Residential Refrigerator	≥ 7.75 ft <sup>3</sup> and ≤ 39 ft <sup>3</sup>	ENERGY STAR Qualified Residential Refrigerator	Each	\$30
Tier 1 High-Efficiency Central Air Conditioner (CAC) (≥ 18,000 BTU/h Cooling Capacity)	Split Systems	≥ 14.5 SEER ≥ 12 EER	Each	\$145
	Single Package Equipment (Including Gas/Electric Package Units)	≥ 14 SEER ≥ 11 EER		
Tier 2 High-Efficiency CAC (≥ 18,000 BTU/h Cooling Capacity)	Split Systems or Single Package Equipment (Including Gas/Electric Package Units)	≥ 16 SEER ≥ 12 EER	Each	\$250

Measure	Equipment Size Category	Minimum Required Efficiency	Unit	Rebates (\$/Unit)
Tier 1 High-Efficiency Air-Source Heat Pumps (≥ 18,000 BTU/h Cooling Capacity)	Split Systems	≥ 8.2 HSPF ≥ 14.5 SEER ≥ 12 EER	Each	\$350
	Single Package Equipment (Including Gas/Electric Package Units)	≥ 8.0 HSPF ≥ 14 SEER ≥ 11 EER		
Tier 2 High-Efficiency Air-Source Heat Pumps (≥ 18,000 BTU/h Cooling Capacity)	Split Systems	≥ 8.5 HSPF ≥ 16 SEER ≥ 12 EER	Each	\$500
	Single Package Equipment (Including Gas/Electric Package Units)	≥ 8.5 HSPF ≥ 16 SEER ≥ 12.5 EER		
ENERGY STAR Room AC	≥ 8,000 BTU/hr	ENERGY STAR Certified	Each	\$25
HVAC Tune Up	Existing CAC and Heat Pump Units only	Program Qualified Contractor Required	Each	\$55 per unit every 3 yrs
Heat Pump Electric Water Heater	First-Hour Rating (FHR) ≥ 50 Gallons per Hour	ENERGY STAR certified, ≥ 2.0 Energy Factor (EF)	Each	\$100
High-Efficiency Electric Water Heater	≥ 40 Gallons and ≤ 80 Gallons	≥ 0.93 EF	Each	\$25

Measure	Equipment Size Category	Minimum Required Efficiency	Unit	Rebates (\$/Unit)
ENERGY STAR Windows	Any Size	U-Factor $\leq 0.32$ SHGC $\leq 0.40$	Ft <sup>2</sup>	\$1
Attic Insulation	Existing R-20 or Less	Add Minimum R-18 (Final Insulation Value R-38 or greater)	Ft <sup>2</sup>	\$0.10
Wall Insulation	Existing less than R-13	Add minimum of R-13 (Final Insulation Value R-13 or greater)	Ft <sup>2</sup>	\$0.45
Floor Insulation	Existing less than R-19	Add minimum R-19 (Final of R-19 or greater)	Ft <sup>2</sup>	\$0.15
Crawl Space Insulation	Existing less than R-19	Add minimum R-19 (Final of R-19 or greater)	Ft <sup>2</sup>	\$0.15

### 3.4 Measures, Eligibility Requirements and Rebate Amounts

#### 3.4.1 Residential Clothes Washer

**Measure Description:** ENERGY STAR qualifying clothes washers use about 37% less energy and over 50% less water than standard machines. Most ENERGY STAR qualifying clothes washers extract more water during the spin cycle, providing further energy savings when using a clothes dryer due to shorter drying times.

**Applicability:** Retrofit installations are eligible for a rebate via a post-purchase application process.



**Equipment Eligibility & Rebate Level:** Rebates are available for ENERGY STAR rated high-efficiency residential front-loading and top-loading washers. Only washers with capacities greater than or equal to 1.6 ft<sup>3</sup> qualify for rebates. For washers with a MEF greater than or equal to 2.0 and a WF less than or equal to 6.0, the rebate is \$50 per unit. All-in-one washers or washers configured in any way other than a front or top-loading design are not eligible for rebates.

**Items to Submit with Rebate Application:**

- Dated and detailed sales receipt/invoice
- Model number and serial number of clothes washer

### 3.4.2 Residential Refrigerator

**Measure Description:** ENERGY STAR qualified refrigerators are 20% more energy efficient than non-qualified models in the same class resulting in lower electricity consumption.

**Applicability:** Retrofit installations are eligible for a rebate via a post-purchase application process.

**Equipment Eligibility & Rebate Level:** Rebates are available for ENERGY STAR qualified refrigerators greater than or equal to 7.75 ft<sup>3</sup> and less than or equal to 39 ft<sup>3</sup>. For ENERGY STAR qualified refrigerators, the rebate is \$30 per unit. Commercial models of refrigerators and refrigerator-freezers with total refrigerated volume exceeding 39 cubic feet, and freezers with total refrigerated volume exceeding 30 ft<sup>3</sup> are not eligible for rebates.

**Items to Submit with Rebate Application:**

- Dated and detailed sales receipt and invoice
- Model number and serial number of refrigerator

### 3.4.3 Tier 1 High-Efficiency Central Air Conditioner

**Measure Description:** Rebates are available for qualifying central air conditioners, split systems or single package equipment (including gas/electric package units).

**Applicability:** Retrofit installations are eligible for rebate via a post-purchase application process.

**Equipment Eligibility & Rebate Level:** Units must have a cooling capacity of  $\geq 18,000$  BTU/h. Tier 1 High-Efficiency Central Split System Air Conditioners must meet or exceed 14.5 SEER and 12 EER and Tier 1 High Efficiency Single Package equipment (including gas/electric package units) must meet or exceed 14 SEER and 11 EER as determined by Air Conditioning, Heating, and Refrigeration Institute (AHRI) Standard

210/240 (formerly ARI Standard 210/240). Equipment must be a newly purchased and installed air-source split or packaged unitary air conditioner. Split system equipment must include a new matched condensing unit and a new evaporator coil. To be eligible for a rebate, the installation must be a properly matched, complete system recognized by AHRI (Air Conditioning, Heating, and Refrigeration Institute) and have an official AHRI rating. Systems that do not have an AHRI rating will not qualify for the rebate since the efficiency cannot be verified by a standardized method. Both split systems and package systems are eligible. Room Air Conditioners and Central Air Conditioners that use a third party (or independent) coil, three-phase equipment, and products rated above 65,000 Btu/hr are not eligible for rebates. The rebate for Tier 1 High-Efficiency Central Air Conditioners is \$145 per unit.

**Items to Submit with Rebate Application:**

- Dated and detailed sales receipt or invoice, and a copy of a properly calculated cooling load for your home (contact a participating HVAC contractor for this information)
- Model number and serial number of the installed air conditioning unit

### 3.4.4 Tier 2 High-Efficiency Central Air Conditioner

**Measure Description:** Tier 2 High-Efficiency Central Air Conditioner includes units with higher energy efficiency rating.

**Applicability:** Retrofit installations are eligible for rebate via a post-purchase application process.

**Equipment Eligibility & Rebate Level:** Units must have a cooling capacity of  $\geq 18,000$  BTU/h. Tier 2 High-Efficiency Central Air Conditioners must meet or exceed 16 SEER and 12 EER as determined by Air Conditioning, Heating, and Refrigeration Institute (AHRI) Standard 210/240 (formerly ARI Standard 210/240). Equipment must be a newly purchased and installed air-source split or packaged unitary air conditioner. Split system equipment must include a new matched condensing unit and a new evaporator coil. To be eligible for a rebate, the installation must be a properly matched, complete system recognized by AHRI (Air Conditioning, Heating, and Refrigeration Institute) and have an official AHRI rating. Systems that do not have an AHRI rating will not qualify for the rebate since the efficiency cannot be verified by a standardized method. Both split systems and package systems are eligible. Room Air Conditioners and Central Air Conditioners that use a third party (or independent) coil, three-phase equipment, and products rated above 65,000 Btu/hr are not eligible for rebates. The rebate for Tier 2 High-Efficiency Central Air Conditioners is \$250 per unit.

**Items to Submit with Rebate Application:**

- Dated and detailed sales receipt or invoice, and a copy of a properly calculated cooling load for your home (contact a participating HVAC contractor for this information)
- Model number and serial number of the installed air conditioning unit

**3.4.5 Tier 1 High-Efficiency Air-Source Heat Pumps**

**Measure Description:** ENERGY STAR models have higher seasonal energy efficiency ratio (SEER) and energy efficiency ratio (EER) ratings, as well as a higher heating seasonal performance factor (HSPF) than standard models, making them about 9% percent more efficient than standard new models. Rebates are available for the purchase of High-Efficiency Air-Source Heat Pumps.

**Applicability:** Retrofit installations are eligible for rebate via a post-purchase application process.

**Equipment Eligibility & Rebate Level:** Units must have a cooling capacity of  $\geq 18,000$  BTU/h. Qualifying split system equipment must meet or exceed 8.2 HSPF, 14.5 SEER, and 12 EER. Qualifying single package equipment (including gas/electric package units) must exceed 8.0 HSPF, 14 SEER and 11 EER. Equipment must be purchased as a new unit. To be eligible for a rebate, the installation must be a properly matched, complete system recognized by AHRI (Air Conditioning, Heating, and Refrigeration Institute) and have an official AHRI rating. Systems that do not have an AHRI rating will not qualify for the rebate since the efficiency cannot be verified by a standardized method. Both split systems and package systems are eligible. The rebate for High-Efficiency Air-Source Heat Pumps is \$350 per unit.

**Items to Submit with Rebate Application:**

- Dated and detailed sales receipt or invoice, and a copy of a properly sized calculated cooling load for your home (contact a participating HVAC contractor for this information)
- Model number and serial number of the installed heat pump unit

**3.4.6 Tier 2 High-Efficiency Air-Source Heat Pumps**

**Measure Description:** ENERGY STAR models have higher seasonal energy efficiency ratio (SEER) and energy efficiency ratio (EER) ratings, as well as a higher heating seasonal performance factor (HSPF) than standard models, making them about 9% percent more efficient than standard new models. Rebates are available for the purchase of High-Efficiency Air-Source Heat Pumps.

**Applicability:** Retrofit installations are eligible for rebate via a post-purchase application process.

**Equipment Eligibility & Rebate Level:** Units must have a cooling capacity of  $\geq 18,000$  BTU/h. Qualifying split system equipment must meet or exceed 8.5 HSPF, 16 SEER, and 12 EER. Qualifying single package equipment (including gas/electric package units) must exceed 8.5 HSPF, 16 SEER and 12.5 EER.

Equipment must be purchased as a new unit. To be eligible for a rebate, the installation must be a properly matched, complete system recognized by AHRI (Air Conditioning, Heating, and Refrigeration Institute) and have an official AHRI rating. Systems that do not have an AHRI rating will not qualify for the rebate since the efficiency cannot be verified by a standardized method. Both split systems and package systems are eligible. The rebate for High-Efficiency Air-Source Heat Pumps is \$500 per unit.

**Items to Submit with Rebate Application:**

- Dated and detailed sales receipt or invoice, and a copy of a properly sized calculated cooling load for your home (contact a participating HVAC contractor for this information)
- Model number and serial number of the installed heat pump unit

### 3.4.7 ENERGY STAR Room Air Conditioners

**Measure Description:** ENERGY STAR qualified Room Air Conditioners use about 10% less energy than conventional models. They often include timers for better temperature control, allowing users to use the minimum amount of energy needed to cool a space.

**Equipment Eligibility & Rebate Level:** Qualifying units must be ENERGY STAR certified and with a minimum cooling capacity of 8,000 BTU/h. The rebate for ENERGY STAR Room Air Conditioners is \$25 per qualifying unit purchased.

**Items to Submit with Rebate Application:**

- Dated and detailed sales receipt or invoice of the installed air conditioner(s).

### 3.4.8 HVAC Tune-Up

**Measure Description:** HVAC tune-ups maintain the efficiency of cooling equipment, allowing the unit to use less electricity while keeping your home comfortable.

**Applicability:** Rebates are available on existing residential central air conditioners and heat pump systems only.

**Equipment Eligibility & Rebate Level:** HVAC tune-ups must be completed by a qualified contractor. The tune-up contractor must complete a program tune-up worksheet. Rebates are limited to one tune-up rebate per unit for every three years. Rebate Application and required documents must be received

within 90 days of completed service. The rebate for HVAC Tune-Ups is \$55. Furnaces do not qualify for a tune-up rebate.

**Items to Submit with Rebate Application:**

- Dated and detailed sales receipt or invoice and program tune-up worksheet as shown in Appendix B

### 3.4.9 Heat Pump Electric Water Heater

**Measure Description:** Heat Pump Electric Water Heaters use electricity to heat potable water for use outside the heater upon demand. Qualifying Heat Pump Water Heaters shall have a maximum current rating of 24 amperes and a voltage no greater than 250 volts, and must be designed to transfer thermal energy from one temperature level to a higher temperature level for the purpose of heating water and have a “integrated” or “drop-in” configuration that includes all ancillary equipment such as fans, storage tanks, pumps, or controls necessary for the device to perform its function.

**Applicability:** Retrofit installations are eligible for rebates via a post-purchase application process.

**Equipment Eligibility & Rebate Level:** Rebates are available for Heat Pump Electric Water Heaters with a First-Hour Rating (FHR) greater than or equal to 50 gallons per hour and an Energy Factor (EF) greater than or equal to 2.0. The rebate for qualifying Heat Pump Electric Water Heaters is \$100 per unit.

**Items to Submit with Rebate Application:**

- Dated and detailed sales receipt or invoice for the installed Heat Pump Electric Water Heater
- Model number and serial number of Heat Pump Electric Water Heater

### 3.4.10 High-Efficiency Electric Water Heater

**Measure Description:** High-Efficiency Electric Water Heaters use electricity to heat potable water for use outside the heater. Energy-efficient storage water heaters have higher levels of insulation around the tank, substantially reducing standby heat loss.

**Applicability:** Retrofit installations are eligible for rebate via a post-purchase application process.

**Equipment Eligibility & Rebate Level:** Rebates are available for High-Efficiency (HE) Electric Water Heaters between 40 to 80 gallons and an Energy Factor (EF) greater than or equal to 0.93. The rebate for qualifying HE Electric Water Heaters is \$25 per unit.

**Items to Submit with Rebate Application:**

- Dated and detailed sales receipt or invoice

- Model number and serial number of Electric Water Heater

### 3.4.11 CFLs

**Measure Description:** Replacing incandescent light bulbs to ENERGY STAR CFLs can save around 75% of lighting costs and produce less waste heat from lighting.

**Applicability:** New construction and retrofit installations are eligible for instant rebate at the point of purchase.

**Equipment Eligibility & Rebate Level:** A rebate of \$1.5 is offered as point of purchase discounts for qualifying ENERGY STAR certified CFLs purchased at select locations in Danville, VA.

### 3.4.12 ENERGY STAR Windows

**Measure Description:** Installing ENERGY STAR windows can help improve home energy savings through cutting down heating and cooling losses.

**Applicability:** Retrofit installations are eligible for rebate via a post-purchase application process.

**Equipment Eligibility & Rebate Level:** ENERGY STAR windows with U-factors less than or equal to 0.32 and SHGC less than or equal to 0.40 are eligible for a rebate of \$1 per square foot.

**Items to Submit with Rebate Application:**

- Dated and detailed sales receipt or invoice for the installed windows.
- Specification sheet indicating the U-factor and SHGC for the installed windows.

### 3.4.13 Attic Insulation

**Measure Description:** Increasing the insulation in your attic provides a stronger barrier between the inside of your home and the elements outside.

**Applicability:** Only retrofit installations are eligible for rebate via a post-purchase application process.

**Equipment Eligibility & Rebate Level:** Must be installed in a qualifying space, which separates conditioned from unconditioned space. A rebate of \$0.10 per square foot (surface area) of insulation installed is offered for the addition of a minimum R-18 insulation to achieve a final insulation value of R-38 or greater.

**Items to Submit with Rebate Application:**

- Dated and detailed sales receipt or invoice, indicating the R-value of insulation added and the final installed R-value of the attic insulation.

### 3.4.14 Wall Insulation

**Measure Description:** The Wall Insulation measure here refers to insulating the cavities between internal and external wall faces, and is one of the most effective ways to save energy through insulation.

**Applicability:** Only retrofit installations are eligible for rebate via a post-purchase application process.

**Equipment Eligibility & Rebate Level:** Must be installed in a qualifying space, which separates conditioned from unconditioned space. Installing a minimum of R-13 insulation creating a minimum final insulation value of R-13 or greater will result in a rebate of \$0.45 per square foot.

**Items to Submit with Rebate Application:**

- Dated and detailed sales receipt or invoice, indicating the R-value added, and the final total installed R-value of the wall insulation.

### 3.4.15 Floor Insulation

**Measure Description:** Floor insulation deals with the areas of the house covered by flooring including the floors between the stories of a home. The primary purpose of floor insulation is to reduce thermal conduction through a home's floors, which in turn will reduce the heating/cooling energy costs.

**Applicability:** Only retrofit installations are eligible for rebate via a post-purchase application process.

**Equipment Eligibility & Rebate Level:** Must be installed in a qualifying space, which separates conditioned from unconditioned space. For the installation, adding a minimum of R-19 insulation creating a minimum final insulation value of R-19 or greater will result in a rebate of \$0.15 per square foot.

**Items to Submit with Rebate Application:**

- Dated and detailed sales receipt or invoice, indicating the R-value added, and the final total installed R-value of the floor insulation.

### 3.4.16 Crawl Space Insulation

**Measure Description:** Crawl spaces are areas underneath a home that are open to the elements and not covered by the foundation. Increasing the insulation in the crawl space of a home also ensures a strong barrier to prevent infiltration and energy loss through the crawl space, and additionally will protect and pipes or wires being run through the space.

**Applicability:** Only retrofit installations are eligible for rebate via a post-purchase application process.

**Equipment Eligibility & Rebate Level:** Must be installed in a qualifying space, which separates conditioned from unconditioned space. Adding a minimum of R-19 insulation creating a minimum final insulation value of R-19 or greater will result in a rebate of \$0.15 per square foot.

**Items to Submit with Rebate Application:**

- Dated and detailed sales receipt or invoice, indicating the R-value added, and the final total installed R-value of the crawl space insulation.





